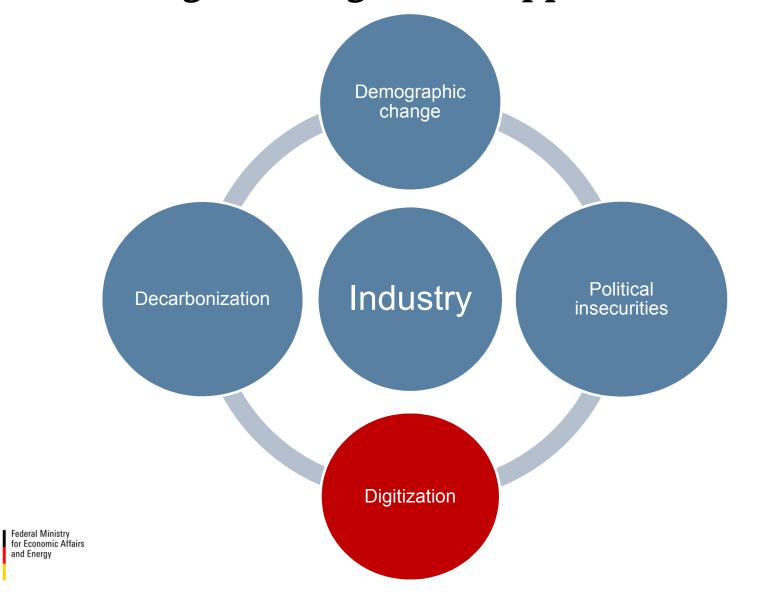


Industrie 4.0 needs International Action

Markus Heß, Deputy Director-General – Industrial Policy, Federal Ministry for Economic Affairs and Energy

The 3rd RRI International Symposium for *Connected Industries* Tokyo, 30 November 2017

Modern Global Industry: Turning Challenges into Opportunities



Benefits for Enterprises and Society The Vision for the 4th Industrial Revolution







National Policy Instrument - Plattform I4.0 (I)

Chair Ministers Zypries, Wanka

Representatives of commerce, trade unions, science

Technical/practical expertise decision-making

Steering body (companies)

- Chaired by business representatives, participation of Economic Affairs and Research Ministries
- Chairs of working groups, other guests/ promoters

Industrial strategy development, technical coordination, decision-making and implementation

Working groups

- Reference architecture, standardisation and norms
- Research and innovation
- Security of networked systems
- Legal framework
- · Work, education and training
- Others as required

Working units with technical/practical expertise; participating ministries: Economic Affairs, Research, Interior, Labour

Policy guidance, society, multipliers

Strategy group

(Government, business, unions, science)

- Chaired by StS Machnig, StS Schütte
- Representatives of steering body
- Representatives of Federal Chancellery, Interior Ministry
- Representatives of the Länder
- Representatives of associations (BDEW, BDI, BITKOM, DIHK, VDA, VDMA, ZVEI)
- Representatives of trade union (IG Metall)
- Representatives of science (Fraunhofer)

Agenda setting, political steering, multipliers

Activities on the market

Industrial consortia and initiatives

Implementation on the market: test beds, examples of applications

International standardisation

Consortia, standardisation bodies, DKE and others

Scientific Advisory Committee

Labs Network Industrie 4.0

Secretariat as service provider

Network coordination, organisation, project management, internal and external communication

Standardisation Council I4.0

Highlights from Platform Industrie 4.0

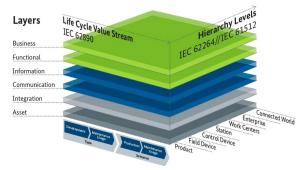
Online Library



RAMI 4.0 / Administration Shell







Spin-offs from the platform:

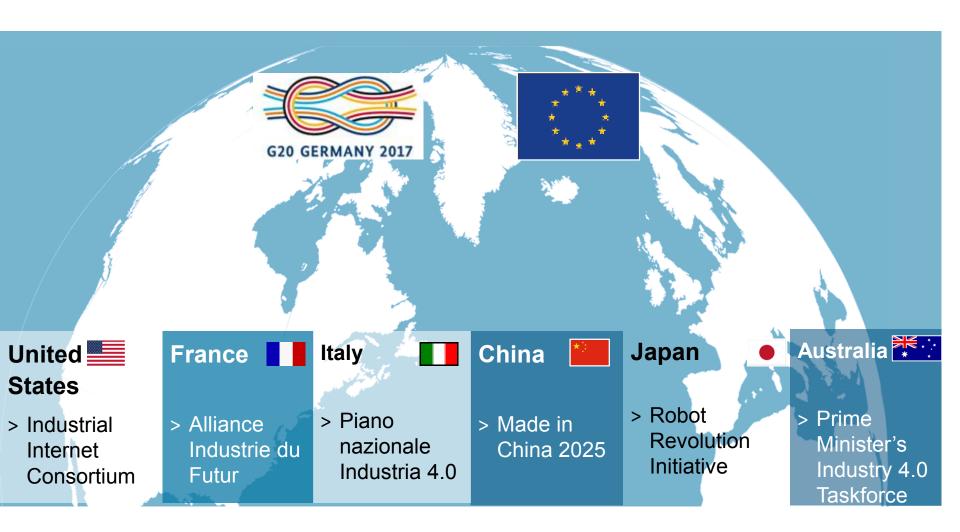






National Policy Instrument: SME-Transfer Network Industrie 4.0 (II) **Plattform** Industrie 4.0 **Chambers** SME 4.0 of Industry **Centers of Excellence** and Commerce **Federal** Regional **Ministries Projects** and Clusters Labs **Business Network Associations** German Industrie **Federal** 4.0 **States** Federal Ministry for Economic Affairs and Energy

International Cooperation - Multilateral/Bilateral





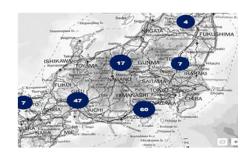
Scope and Results (I)

1) Learn from each other Germany





Japan

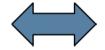


Scope and Results (II)

2) Facilitate cooperation among initiatives, companies, research institutes

& Support SMEs in going abroad







Scope and Results (III)

- 3) Strive for international solutions
 - a) Standardization

The common strategy on international standardization in field of the Internet of Things/Industrie 4.0

b) Industrial cyber security



c) Regulatory framework issues







German G20 Presidency



- Digitization is a key requirement for strong, sustainable, balanced and inclusive global growth
- Global digital markets need global understanding
- First G20 Digital Ministers' Conference in April
- Roadmap



Thank you for your attention!